

LIQUID CRYSTAL DISPLAY INCLUDING CHOLESTERIC LIQUID CRYSTAL POLARIZER

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Abstract of KR20040005420

PURPOSE: A liquid crystal display including a cholesteric liquid crystal polarizer is provided to improve the contrast ratio of a transmission type color liquid crystal display. **CONSTITUTION:** A liquid crystal display includes the first and second substrates(100,200), a liquid crystal layer(204), a polarizer(104), a back light unit(300), and a CLC polarizer(206). The first and second substrates are combined with each other, having a predetermined gap between them. The liquid crystal layer is interposed between the first and second substrates. The polarizer is located on the outer side of the first substrate. The back light unit is arranged under the second substrate. The CLC polarizer is placed between the second substrate and the back light unit. The cholesteric liquid crystal of the CLC polarizer is sequentially changed from a pitch corresponding to a long wavelength to a pitch corresponding to a short wavelength in the thickness direction. One side of the CLC polarizer, adjacent to the back light unit, has the long-wavelength pitch.

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